



**State of Utah**  
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October 6, 1999

TO: File

THRU: Daron Haddock, Permit Supervisor 

FROM: David Darby, Reclamation Specialist 

RE: As-Built Plans for Reconstruction of Permanent Undisturbed Drainage Diversion,  
Mountain Coal Company, Gordon Creek #2, #7, & #8 Mines, ACT/007/016-99A,  
Carbon County, Utah File #2

## SUMMARY

A set of as-built channel designs were submitted with the Phase I Bond Release Request Package, but has never been incorporated as part of the approved plan. Those plans were requested after reconstruction activities took place on undisturbed diversion channels SD-4, SD-5 and SD-6. Mitigation reconstruction was requested on the channels after a trespasser drove a vehicle on site when the soils were muddy causing ruts in the reclaimed surface and in the channels.

As-builts designs were originally sought after the landowner regraded the surface in late September 1998. Plans were submitted in early June 1999 and subsequently denied, because of an assessed sizing conflict. The operator was requested to evaluate the flow capacity in the channels using a higher value curve number (CN) to reflect the levels expected with antecedent moisture conditions and resubmit the designs.

The channels were resized in July after equipment was moved back on site to regrade areas damaged by a trespass vehicle. The notification of reconstruction was received at the DOGM office on June 28, 1999. The designs were upgraded to reflect the additional changes since that time.

## RECLAMATION PLAN

### HYDROLOGIC INFORMATION

Regulatory Reference: R645-301-742, -301-761.

#### Analysis

The as-built plans submitted with the Phase I Bond Release Request Package were returned to the operator. The plans should be submitted as an amendment to the mining and reclamation plan (MRP). The as-built plans will then be evaluated for technical compliance, that is, to ensure that runoff's generated during a 10 yr-24 hr precipitation event will be contained and transmitted through the channel.

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The sizing standards for the channels were presented in a letter to Chris Hansen on June 22, 1999. The suggested channel size designs were based on antecedent moisture condition III, since the channels are intended to be in use for a long period of time and the site is infrequently visited.

The as-built plans for the undisturbed channels should consist of longitudinal and cross sections graphs to depict the carrying capacity of the channel. Designs should depict sizing calculations and discuss the riprap placement and sizing.

### **Findings**

The applicant should resubmit complete as-built undisturbed drainage channel designs incorporating the above mentioned information. The information should be accompanied by the C1 and C2 forms.

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